



- NOTES:**
- 1 Pump assembly supplied by MAYEKAWA includes the regulator
 - 2 Manual valve shall be used during startup. During operation valve shall be closed.
 - 3 For operation P and T, refer to Table

DP CLEAN: 0.2-0.3 BAR
 DP DIRTY: 1 BAR

Comp. Oil Flow: 53.2 Lpm
 14.1 GPM

STREAM	Unit	50	51	52
Vapour Fraction		0.00	0.00	0.00
Temperature	C	73.50	60.00	60.00
Pressure	bara	20.20	19.70	22.50
Mass Flow	kg/h	53.20	53.20	53.20
Volume	lpm	624.48	600.17	600.17
Heat Flow	kW	0	0	0
Component(s)		OIL	OIL	OIL
MW	kg/kgmol	500	500	500
Cp		-	-	-
Z Factor		-	-	-
Density	kg/m3	1005.00	1005.00	1005.00
Viscosity	cp	12.00	12.00	12.00

STREAM	Unit	1	2	3	4	5	6	7	8	9	10	30	31
Vapour Fraction		1.00	1.00	1.0000	1.0000	0.0000	0.0000	0.4294	1.0000	0.0000	1	0.0000	0.0000
Temperature	C	-0.17	73.50	73.50	73.50	56.32	56.32	0.88	-0.07	56.32	73.39	15.20	5.00
Pressure	bara	4.65	20.20	19.80	19.80	19.70	19.70	4.86	4.70	19.70	19.774	5.50	5.30
Mass Flow	kg/h	2,847.00	6,049.20	2,847.00	3,015.50	2,847.00	2,847.00	2,847.00	2,847.00	168.50	168.5	36,929.76	36,929.76
Heat Flow	kW	-1,920.00	-1,848.00	-1,848.00	-1,848.00	-2,213.50	-2,089.00	-2,089.00	-1,920.00	-123.71	-109.34	-	-
Component(s)		PROPANE	PROPANE & OIL	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	STYRENE IN	STYRENE OUT
MW	kg/kgmol	44.096	-	44.096	44.096	44.096	44.096	44.096	44.096	44.096	44.096	-	-
Cp/Cv		1.2189	-	1.3340	1.3340	-	-	-	-	-	1.3309	-	-
Z Factor		0.8951	-	0.7475	0.7475	-	-	-	-	-	0.7489	-	-
Density	kg/m3	10.11	-	43.38	43.38	436.90	436.90	-	10.22	436.90	40.5	909.60	918.00
Viscosity	cp	0.0078	-	0.0106	0.0106	0.0690	0.0590	-	0.0078	0.0690	0.01066	0.82	0.96

Client: ENER TEKNOLOJI
 P. O. No.: PO-ENER-MME-2024-100-002
 Project: DELTA
 Service: REFRIGERATION PACKAGE
 Location: IRAQ
 Job No.: MPG009
 Unit Item Number:
 Compressor Model: 160V
 Refrigerant: PROPANE

REVISION	DATE	DESCRIPTION
3	6/12/2024	Issued for Approval
2	4/23/2024	Issued for Approval
1	4/2/2024	Issued for Approval
0	3/7/2024	Issued for Approval

BY: Vendor 2
 APP Vendor 1 PFD
 DATE: 6/12/2024 DWG: MPG009-20085 REV 3